

Do

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/520,224  
Source: PU/10  
Date Processed by STIC: 10/25/05

***ENTERED***



PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/520,224

DATE: 10/25/2005  
TIME: 12:05:01

Input Set : A:\Seqlist.txt  
Output Set: N:\CRF4\10252005\J520224.raw

4 <110> APPLICANT: Mueller-Hermelink, Hans Konrad  
5 Vollmers, Heinz  
8 <120> TITLE OF INVENTION: Neoplasm Specific Antibodies and Uses  
9 Thereof  
11 <130> FILE REFERENCE: 50308/006001  
13 <140> CURRENT APPLICATION NUMBER: 10/520,224  
14 <141> CURRENT FILING DATE: 2005-01-04  
16 <150> PRIOR APPLICATION NUMBER: PCT/IB2003/003487  
17 <151> PRIOR FILING DATE: 2003-07-02  
19 <150> PRIOR APPLICATION NUMBER: DE 10230516.1  
20 <151> PRIOR FILING DATE: 2002-07-06  
22 <150> PRIOR APPLICATION NUMBER: DE 10229907.2  
23 <151> PRIOR FILING DATE: 2002-07-04  
25 <150> PRIOR APPLICATION NUMBER: DE 10229906.4  
26 <151> PRIOR FILING DATE: 2002-07-04  
28 <160> NUMBER OF SEQ ID NOS: 12  
30 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
32 <210> SEQ ID NO: 1  
33 <211> LENGTH: 106  
34 <212> TYPE: PRT  
35 <213> ORGANISM: Homo sapiens  
37 <400> SEQUENCE: 1  
38 Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Pro Gly Gln  
39 1 5 10 15  
40 Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Lys Tyr Pro  
41 20 25 30  
42 Tyr Trp Tyr Gln Gln Lys Ser Gly Gln Ala Pro Val Leu Val Ile Tyr  
43 35 40 45  
44 Glu Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
45 50 55 60  
46 Ser Ser Gly Thr Met Ala Thr Leu Thr Ile Ser Gly Ala Gln Val Glu  
47 65 70 75 80  
48 Asp Glu Ala Asp Tyr Tyr Cys Tyr Ser Thr Asp Ser Ser Gly Asn Met  
49 85 90 95  
50 Ser Ser Glu Leu Gly Pro Ser Ser Pro Ser  
51 100 105  
54 <210> SEQ ID NO: 2  
55 <211> LENGTH: 318  
56 <212> TYPE: DNA  
57 <213> ORGANISM: Homo sapiens  
59 <220> FEATURE:  
60 <221> NAME/KEY: CDS  
61 <222> LOCATION: (1)...(318)

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63 <400> SEQUENCE: 2  
64 tcc tat gtg ctg act cag cca ccc tcg gtg tca gtg tcc cca gga caa 48  
65 Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
66 1 5 10 15  
68 acg gcc agg atc acc tgc tct gga gat gca ttg cca aaa aaa tat cct 96  
69 Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Lys Tyr Pro  
70 20 25 30  
72 tat tgg tac cag cag aag tca ggc cag gcc cct gtg ctg gtc atc tat 144  
73 Tyr Trp Tyr Gln Gln Lys Ser Gly Gln Ala Pro Val Leu Val Ile Tyr  
74 35 40 45  
76 gag gac agc aaa cga ccc tcc ggg atc cct gag aga ttc tct ggc tcc 192  
77 Glu Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
78 50 55 60  
80 agc tca ggg aca atg gcc acc ttg act atc agt ggg gcc cag gtg gag 240  
81 Ser Ser Gly Thr Met Ala Thr Leu Thr Ile Ser Gly Ala Gln Val Glu  
82 65 70 75 80  
84 gat gaa gct gac tac tac tgt tac tca aca gac agc agt ggt aat atg 288  
85 Asp Glu Ala Asp Tyr Tyr Cys Tyr Ser Thr Asp Ser Ser Gly Asn Met  
86 85 90 95  
88 tct tcg gaa ctg gga cca agc tca ccg tcc 318  
89 Ser Ser Glu Leu Gly Pro Ser Ser Pro Ser  
90 100 105  
93 <210> SEQ ID NO: 3  
94 <211> LENGTH: 98  
95 <212> TYPE: PRT  
96 <213> ORGANISM: Homo sapiens  
98 <400> SEQUENCE: 3  
99 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser  
100 1 5 10 15  
101 Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp  
102 20 25 30  
103 Val Ser Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser  
104 35 40 45  
105 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu  
106 50 55 60  
107 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr  
108 65 70 75 80  
109 Cys Ala Lys Asp Ser Phe Arg Glu Gly Pro Trp Gly Gln Gly Thr Leu  
110 85 90 95  
111 Val Thr  
115 <210> SEQ ID NO: 4  
116 <211> LENGTH: 294  
117 <212> TYPE: DNA  
118 <213> ORGANISM: Homo sapiens  
120 <220> FEATURE:  
121 <221> NAME/KEY: CDS  
122 <222> LOCATION: (1)...(294)  
124 <400> SEQUENCE: 4  
125 ggg tcc ctg aga ctc tcc tgt gca gcc tct gga ttc acc ttt agc agc 48

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Input Set : A:\Seqlist.txt  
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126 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser  
127 1 5 10 15  
129 tat gcc atg agc tgg gtc cgc cag gct cca ggg aag ggg ctg gag tgg 96  
130 Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp  
131 20 25 30  
133 gtc tca gct att agt ggt agt ggt agc aca tac tac gca gac tcc 144  
134 Val Ser Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser  
135 35 40 45  
137 gtg aag ggc cgg ttc acc atc tcc aga gac aat tcc aag aac acg ctg 192  
138 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu  
139 50 55 60  
141 tat ctg caa atg aac agc ctg aga gcc gag gac acg gcc gta tat tac 240  
142 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr  
143 65 70 75 80  
145 tgt gcg aaa gat tca ttt cgt gaa gga ccc tgg ggc cag gga acc ctg 288  
146 Cys Ala Lys Asp Ser Phe Arg Glu Gly Pro Trp Gly Gln Gly Thr Leu  
147 85 90 95  
149 gtc acc 294  
150 Val Thr.  
154 <210> SEQ ID NO: 5  
155 <211> LENGTH: 116  
156 <212> TYPE: PRT  
157 <213> ORGANISM: Homo sapiens  
159 <400> SEQUENCE: 5  
160 Gln Ser Ala Leu Thr Gln Pro Ala Ser Leu Ser Ala Ser Pro Gly Ala  
161 1 5 10 15  
162 Ser Ala Ser Leu Thr Cys Thr Leu Arg Ser Gly Ile Asn Val Gly Thr  
163 20 25 30  
164 Tyr Arg Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Gln Tyr  
165 35 40 45  
166 Leu Leu Arg Tyr Lys Ser Asp Ser Asp Lys Gln Lys Gly Ser Gly Val  
167 50 55 60  
168 Pro Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Ala Asn Ala Gly Ile  
169 65 70 75 80  
170 Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys  
171 85 90 95  
172 Met Ile Trp His Ser Ser Ala Trp Val Phe Gly Gly Thr Lys Leu  
173 100 105 110  
174 Thr Val Leu Gly  
175 115  
178 <210> SEQ ID NO: 6  
179 <211> LENGTH: 348  
180 <212> TYPE: DNA  
181 <213> ORGANISM: Homo sapiens  
183 <220> FEATURE:  
184 <221> NAME/KEY: CDS  
185 <222> LOCATION: (1)...(348)  
187 <400> SEQUENCE: 6  
188 cag tct gcc ctg act cag cct gct tcc ctc tct gca tct cct gga gca 48

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189 Gln Ser Ala Leu Thr Gln Pro Ala Ser Leu Ser Ala Ser Pro Gly Ala  
190 1 5 10 15  
192 tca gcc agt ctc acc tgc acc ttg cgc agt ggc atc aat gtt ggt acc 96  
193 Ser Ala Ser Leu Thr Cys Thr Leu Arg Ser Gly Ile Asn Val Gly Thr  
194 20 25 30  
196 tac agg ata tac tgg tac cag cag aag cca ggg agt cct ccc cag tat 144  
197 Tyr Arg Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Gln Tyr  
198 35 40 45  
200 ctc ctg agg tac aaa tca gac tca gat aag cag aag ggc tct gga gtc 192  
201 Leu Leu Arg Tyr Lys Ser Asp Ser Asp Lys Gln Lys Gly Ser Gly Val  
202 50 55 60  
204 ccc agc cgc ttc tct gga tcc aaa gat gct tcg gcc aat gca ggg att 240  
205 Pro Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Ala Asn Ala Gly Ile  
206 65 70 75 80  
208 tta ctc atc tct ggg ctc cag tct gag gat gag gct gac tat tac tgt 288  
209 Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys  
210 85 90 95  
212 atg att tgg cac agc agc gct tgg gtg ttc ggc gga ggg acc aag ctg 336  
213 Met Ile Trp His Ser Ser Ala Trp Val Phe Gly Gly Thr Lys Leu  
214 100 105 110  
216 acc gtc cta ggt 348  
217 Thr Val Leu Gly  
218 115  
221 <210> SEQ ID NO: 7  
222 <211> LENGTH: 107  
223 <212> TYPE: PRT  
224 <213> ORGANISM: Homo sapiens  
226 <400> SEQUENCE: 7  
227 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser  
228 1 5 10 15  
229 Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp  
230 20 25 30  
231 Val Ser Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser  
232 35 40 45  
233 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu  
234 50 55 60  
235 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr  
236 65 70 75 80  
237 Cys Ala Lys Gly Gly Ala Glu Gly Trp Tyr Glu Tyr Tyr Tyr Tyr Tyr  
238 85 90 95  
239 Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val  
240 100 105  
243 <210> SEQ ID NO: 8  
244 <211> LENGTH: 321  
245 <212> TYPE: DNA  
246 <213> ORGANISM: Homo sapiens  
248 <220> FEATURE:  
249 <221> NAME/KEY: CDS  
250 <222> LOCATION: (1)...(321)

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Input Set : A:\Seqlist.txt  
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252 <400> SEQUENCE: 8  
 253 ggg tcc ctg aga ctc tcc tgt gca gcc tct gga ttc acc ttt agc agc 48  
 254 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser  
 255 1 5 10 15  
 257 tat gcc atg agc tgg gtc cgc cag gct cca ggg aag ggg ctg gag tgg 96  
 258 Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp  
 259 20 25 30  
 261 gtc tca gct att agt ggt agt ggt agt aca tac tac gca gac tcc 144  
 262 Val Ser Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser  
 263 35 40 45  
 265 gtg aag ggc cgg ttc acc atc tcc aga gac aat tcc aag aac acg ctg 192  
 266 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu  
 267 50 55 60  
 269 tat ctg caa atg aac agc ctg aga gcc gag gac acg gcc gta tat tac 240  
 270 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr  
 271 65 70 75 80  
 273 tgt gcg aaa ggt ggg gcc gaa ggc tgg tac gag tac tac tac tac tac 288  
 274 Cys Ala Lys Gly Gly Ala Glu Gly Trp Tyr Glu Tyr Tyr Tyr Tyr  
 275 85 90 95  
 277 ggt atg gac gtc tgg ggc caa ggg acc ctg gtc 321  
 278 Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val  
 279 100 105  
 282 <210> SEQ ID NO: 9  
 283 <211> LENGTH: 110  
 284 <212> TYPE: PRT  
 285 <213> ORGANISM: Homo sapiens  
 287 <400> SEQUENCE: 9  
 288 Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln  
 289 1 5 10 15  
 290 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr  
 291 20 25 30  
 292 Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
 293 35 40 45  
 294 Met Ile Tyr Asp Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe  
 295 50 55 60  
 296 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
 297 65 70 75 80  
 298 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Lys Arg Ser Ser  
 299 85 90 95  
 300 Asn Thr Leu Val Phe Gly Gly Thr Lys Leu Thr Val Leu  
 301 100 105 110  
 304 <210> SEQ ID NO: 10  
 305 <211> LENGTH: 330  
 306 <212> TYPE: DNA  
 307 <213> ORGANISM: Homo sapiens  
 309 <220> FEATURE:  
 310 <221> NAME/KEY: CDS  
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 313 <400> SEQUENCE: 10

**VERIFICATION SUMMARY**  
**PATENT APPLICATION: US/10/520,224**

**DATE: 10/25/2005**  
**TIME: 12:05:02**

**Input Set : A:\Seqlist.txt**  
**Output Set: N:\CRF4\10252005\J520224.raw**